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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/027,828

DATE: 08/29/2002  
 TIME: 12:50:15

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3 <110> APPLICANT: Liedtke, Wolfgang  
 4 Heller, Stefan  
 5 Hudspeth, Albert J.  
 6 Friedman, Jeffrey M.  
 8 <120> TITLE OF INVENTION: VR-OAC, AN OSMOTICALLY ACTIVATED CHANNEL PROTEIN, NUCLEIC  
 ACIDS ENCODING  
 9 IT, AND USES THEREOF  
 11 <130> FILE REFERENCE: 600-1-287N  
 13 <140> CURRENT APPLICATION NUMBER: US 10/027,828  
 14 <141> CURRENT FILING DATE: 2001-10-25  
 16 <150> PRIOR APPLICATION NUMBER: US 60/243,568  
 17 <151> PRIOR FILING DATE: 2000-10-26  
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142 35 40 45
145 Pro Ser Pro Ala Asp Ala Ser Arg Pro Ala Gly Pro Gly Asp Gly Arg
146 50 55 60
149 Pro Asn Leu Arg Met Lys Phe Gln Gly Ala Phe Arg Lys Gly Val Pro
150 65 70 75 80
153 Asn Pro Ile Asp Leu Leu Glu Ser Thr Leu Tyr Glu Ser Ser Val Val
154 85 90 95
157 Pro Gly Pro Lys Lys Ala Pro Met Asp Ser Leu Phe Asp Tyr Gly Thr
158 100 105 110
161 Tyr Arg His His Ser Ser Asp Asn Lys Arg Trp Arg Lys Lys Ile Ile
162 115 120 125
165 Glu Lys Gln Pro Gln Ser Pro Lys Ala Pro Ala Pro Gln Pro Pro Pro
166 130 135 140
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170 145 150 155 160
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178          180          185          190
181 Thr Cys Leu Pro Lys Ala Leu Leu Asn Leu Ser Asn Gly Arg Asn Asp
182          195          200          205
185 Thr Ile Pro Val Leu Leu Asp Ile Ala Glu Arg Thr Gly Asn Met Arg
186          210          215          220
189 Glu Phe Ile Asn Ser Pro Phe Arg Asp Ile Tyr Tyr Arg Gly Gln Thr
190 225          230          235          240
193 Ala Leu His Ile Ala Ile Glu Arg Arg Cys Lys His Tyr Val Glu Leu
194          245          250          255
197 Leu Val Ala Gln Gly Ala Asp Val His Ala Gln Ala Arg Gly Arg Phe
198          260          265          270
201 Phe Gln Pro Lys Asp Glu Gly Gly Tyr Phe Tyr Phe Gly Glu Leu Pro
202          275          280          285
205 Leu Ser Leu Ala Ala Cys Thr Asn Gln Pro His Ile Val Asn Tyr Leu
206          290          295          300
209 Thr Glu Asn Pro His Lys Lys Ala Asp Met Arg Arg Gln Asp Ser Arg
210 305          310          315          320
213 Gly Asn Thr Val Leu His Ala Leu Val Ala Ile Ala Asp Asn Thr Arg
214          325          330          335
217 Glu Asn Thr Lys Phe Val Thr Lys Met Tyr Asp Leu Leu Leu Leu Lys
218          340          345          350
221 Cys Ala Arg Leu Phe Pro Asp Ser Asn Leu Glu Ala Val Leu Asn Asn
222          355          360          365
225 Asp Gly Leu Ser Pro Leu Met Met Ala Ala Lys Thr Gly Lys Ile Gly
226          370          375          380
229 Val Phe Gln His Ile Ile Arg Arg Glu Val Thr Asp Glu Asp Thr Arg
230 385          390          395          400
233 His Leu Ser Arg Lys Phe Lys Asp Trp Ala Tyr Gly Pro Val Tyr Ser
234          405          410          415
237 Ser Leu Tyr Asp Leu Ser Ser Leu Asp Thr Cys Gly Glu Glu Ala Ser
238          420          425          430
241 Val Leu Glu Ile Leu Val Tyr Asn Ser Lys Ile Glu Asn Arg His Glu
242          435          440          445
245 Met Leu Ala Val Glu Pro Ile Asn Glu Leu Leu Arg Asp Lys Trp Arg
246          450          455          460
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250 465          470          475          480
253 Ala Met Val Ile Phe Thr Leu Thr Ala Tyr Tyr Gln Pro Leu Glu Gly
254          485          490          495
257 Thr Pro Pro Tyr Pro Tyr Arg Thr Thr Val Asp Tyr Leu Arg Leu Ala
258          500          505          510
261 Gly Glu Val Ile Thr Leu Phe Thr Gly Val Leu Phe Phe Phe Thr Asn
262          515          520          525
265 Ile Lys Asp Leu Phe Met Lys Lys Cys Pro Gly Val Asn Ser Leu Phe
266          530          535          540
269 Ile Asp Gly Ser Phe Gln Leu Leu Tyr Phe Ile Tyr Ser Val Leu Val
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282                               595                               600                               605
285 Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val Tyr Leu Leu Phe
286                               610                               615                               620
289 Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu Asn Pro Cys Ala
290 625                               630                               635                               640
293 Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys Thr Val Pro Thr
294                               645                               650                               655
297 Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr Phe Leu Leu Asp
298                               660                               665                               670
301 Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu Met Leu Ser Ser
302                               675                               680                               685
305 Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val Thr Tyr Ile Ile
306                               690                               695                               700
309 Leu Thr Phe Val Leu Leu Leu Asn Met Leu Ile Ala Leu Met Gly Glu
310 705                               710                               715                               720
313 Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile Trp Lys Leu Gln
314                               725                               730                               735
317 Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe Pro Val Phe Leu
318                               740                               745                               750
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322                               755                               760                               765
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